

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

CLAIMS (Amended)

1. (currently amended): A method of differentiating and proliferating a mesenchymal stem cell into a neural cell ~~by culturing a mesenchymal stem cell in a medium comprising a epidermal growth factor and a hepatocyte growth factor after confluent culturing the mesenchymal stem cell, where it comprises two steps of:~~

- (1) confluent culturing the mesenchymal stem cell as a pretreatment, and
- (2) culturing a mesenchymal stem cell in a medium comprising a epidermal growth factor and a hepatocyte growth factor.

2. (original): The method of claim 1, wherein the mesenchymal stem cell is cultured for more than 1 week in a medium comprising about 1 to about 10,000ng/ml by concentration of the epidermal growth factor and about 1 to about 10,000ng/ml by concentration of the hepatocyte growth factor after confluent culturing the mesenchymal stem cell for about 1 to about 50 hours.

3. (original): The method of claim 1, wherein the mesenchymal stem cell is cultured for more than 1 week in a medium comprising about 10ng/ml by concentration of the epidermal growth factor and about 20ng/ml by concentration of the hepatocyte growth factor after confluent culturing the mesenchymal stem cell for about 24 hours.

4. (currently amended): The method of ~~any one of claim 1 to 3~~ claim 1, wherein the mesenchymal stem cell is cultured for about 2 weeks in the medium comprising the epithermal growth factor and the hepatocyte growth factor and then the medium comprising the epithermal growth factor and the hepatocyte growth factor is changed with a medium comprising only the epithermal growth factor.

5. Canceled.

6. (original): The method of claim 4, wherein the mesenchymal stem cell is a mononuclear cell comprising the mesenchymal stem cell obtained from the bone marrow.

7. Canceled.

8. Canceled.